

## Active Recombinant Human F3 protein

Cat. No. F3-22H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human F3 was expressed in Insect cells.

**Species** Human

**Source** Insect Cells

**ProteinLength** 263 amino acids

**Description** This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described. Alternate splicing results in multiple transcript variants.

**Form** 20 mM Tris, 150 mM NaCl, pH 8.0, 10 mM CHAPS

**Bio-activity** Fluorogenic assay

**Molecular Mass** 35000

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<b>Purity</b>	>95% by SDS-PAGE NOT tissue/cell culture grade. Not tested for endotoxin.
<b>Stability</b>	12 months
<b>Storage</b>	Store at -80 centigrade

## GENE INFORMATION

<b>Gene Name</b>	F3 coagulation factor III (thromboplastin, tissue factor) [ Homo sapiens ]
<b>Official Symbol</b>	F3
<b>Synonyms</b>	F3; coagulation factor III (thromboplastin, tissue factor); tissue factor; CD142; TF; TFA; FLJ17960;
<b>Gene ID</b>	2152
<b>mRNA Refseq</b>	NM_001178096
<b>Protein Refseq</b>	NP_001171567
<b>MIM</b>	134390
<b>UniProt ID</b>	P13726
<b>Chromosome Location</b>	1p22-p21
<b>Pathway</b>	Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Extrinsic Pathway, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem;

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Hemostasis, organism-specific biosystem;

**Function**

cell surface binding; phospholipid binding; protease binding; protein binding;

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